

B26

214. (Amended) A method of treating a coal formation in situ, comprising:  
providing heat from one or more heat sources to at least a portion of the formation;  
allowing the heat to transfer from the one or more heat sources to a selected section of the formation;  
controlling a pressure within at least a majority of the selected section of the formation, wherein the controlled pressure is at least about 2.0 bar absolute;  
controlling the heat from the one or more heat sources such that an average temperature within at least a majority of the selected section of the formation is less than about 375 °C; and  
producing a mixture from the formation.

B27

531. (Amended) A method of treating a coal formation in situ, comprising:  
providing heat from one or more heat sources to at least a portion of the formation;  
allowing the heat to transfer from the one or more heat sources to a selected section of the formation;  
controlling a pressure and a temperature within at least a majority of the selected section of the formation, wherein the pressure is controlled as a function of temperature, or the temperature is controlled as a function of pressure; and  
producing a mixture from the formation.

Sub C2

B28

610. (Amended) A method of treating a coal formation in situ, comprising:  
providing heat to at least a portion of a coal formation such that a temperature ( $T$ ) in a substantial part of the heated portion exceeds 270 °C and hydrocarbons are pyrolyzed within the heated portion of the formation;  
controlling a pressure ( $p$ ) within at least a substantial part of the heated portion of the formation;  
wherein  $p_{bar} > e^{[(-A/T) + B - 2.6744]}$ ;  
wherein  $p$  is the pressure in bar absolute and  $T$  is the temperature in Kelvin, and  $A$

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and  $B$  are parameters that are larger than 10 and are selected in relation to the characteristics and composition of the coal formation and on the required olefin content and carbon number of the pyrolyzed hydrocarbon fluids; and  
producing pyrolyzed hydrocarbon fluids from the heated portion of the formation.

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Applicant believes no fees are due in association with the filing of this document. If any fees are required, please appropriately charge those fees to Conley, Rose & Tayon, P.C. Deposit Account Number 50-1505/5659-09600/EBM.

Respectfully submitted,



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